herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course, THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initial of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.  1. ☑ This communication is responsive to **RCE* request 2/3/05 & AF amendment 1/5/05**  2. ☑ The allowed claim(s) is/are 2,3.5-8.12,13 and 24-31.  3. ☑ The drawings filled on **10/12/01, 5/10/02 and 8/25/04** are accepted by the Examiner.  4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.  (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  1) ☐ here for 2) ☐ to Paper No./Mail Date  (b) ☐ including changes required by the extrached Examiner's Amendment / Comment or in the Grice action of Paper No./Mail Date  1 Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not t		Application No.	Applicant(s)
Notice of Allowability    Examiner		. 09/974.973	HANKE, PAUL D.
The MAILING DATE of this communication appears on the cover sheet with the correspondence address- All claims being allowable. PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith top reviously mailed), a Notice of Allowance (PTOL-95) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initial of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.  1. This communication is responsive to RCE request 2/3/08 & AF amendment 1/5/05.  2. The allowed claim(s) is/are 2.3.5-8.12.13 and 24-31.  3. The drawings filed on 10/12/01, 5/10/02 and 8/25/04 are accepted by the Examiner.  4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some Ohne of the:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  **Certified copies not received.**  Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements roted below. Failure to timely comply will result in ABANDONIMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.  (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  1) hereto or 2) In Peaper No./Mail Date  (b) including changes required by the Autonide Examiner's Amendment / Comment on the from the formal Patent Ap	Notice of Allowability		
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Application/Control Number: 09/974,973

Art Unit: 1652

### **DETAILED ACTION**

## Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on February 3, 2005 has been entered.

The AF amendment filed January 5, 2005 canceling claims 1, 19 and 20 and amending claims 5, 24, 25 and 28 has been entered.

It is noted that support for amending claims 24 and 25 to replace "452" with "455" as in AF amendment of 1/5/05 can be found in the Figures 1 and 2 filed concurrently with the application on October 12, 2001. Figure 1, specifically Figure 1B, shows the amino acid sequence of SEQ ID NO:2, i.e. the sequence of a mutant enzyme having all six mutations recited in claims 24 and 25 with Glycine at position 472 that corresponds to position 455 in SEQ ID NO:19. Figure 2, specifically Figure 2A, shows the alignment of SEQ ID NO:2 and SEQ ID NO:19.

Claims 2, 3, 5-18 and 24-31 are pending. Claims 9-11 and 14-18 are withdrawn. Claims 2, 3, 5-8, 12, 13 and 24-31 are under consideration.

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### **EXAMINER'S AMENDMENT**

Page 3

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

# IN THE SPECIFICATION:

On page 5, line 5,

replace "452" with -455--.

## IN THE CLAIMS:

In claim 7, line 1,

replace "host" with -recombinant--.

In claims 8 and 29,

replace "host" with -recombinant--.

In claims 12 and 30, line 10,

replace "steps (a) and" with -step--.

In claims 13 and 31,

replace "host cell" with -recombinant strain--.

In claim 28, line 1,

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insert -recombinant -- before "cell".

Cancel claims 9-11 and 14-18.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Duane Stewart on March 4, 2005.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth Slobodyansky, PhD whose telephone number is 571-272-0941. The examiner can normally be reached on M-F 10:00 - 6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapura Achutamurthy, PhD can be reached on 571-272-0928. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Elizabeth Slobodyansky, PhD

E. Slobodyansky

Primary Examiner Art Unit 1652